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DATE: 1/30/2004

RE: Serial No.: 09/391647

Docket No.: PHA23756

TO: Examiner: Ellis, Richard L.

Art Unit: 2183


Fax Number: (703) 746-7238

FROM: Michael J. Ure, Reg. No. 33,089

Telephone: (408) 474 - 9077

TRANSMISSION INCLUDES: 19 Pages (including cover sheet)

Response to Petition to Withdraw Holding of Abandonment - 2 pagesAuto-Reply Facsimile Transmission - 1 pageAppeal Brief - 15 pages

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of
WINTHROP L. SAVILLE

Atty. Docket
PHA23.756

Serial: 09/391,647

Group Art Unit: 2183

Filed: 09/07/1999

Examiner: ELLIS, RICHARD L

METHOD FOR FORMING VARIABLE LENGTH INSTRUCTION IN A
PROCESSING SYSTEM

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION TO WITHDRAW HOLDING OF ABANDONMENT

Sir:

Applicant hereby petitions the Commissioner to withdraw the holding of abandonment set forth in the Notice of Abandonment mailed 12/15/2003. The Commissioner is hereby authorized to charge the Petition Fee of \$130 under 37 CFR 1.17(h) to Deposit Account No. 50-1713.

Submitted herewith is a copy of an Appeal Brief fax filed on 04/30/2003, together with a copy of the Patent Office Auto-Reply Facsimile Transmission evidencing timely receipt in the Patent Office of the Appeal Brief. Based on these facts, it may be seen that the present application was not abandoned in fact.

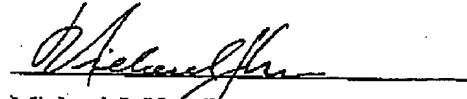
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Withdrawal of the holding of abandonment is respectfully requested.

Respectfully submitted,



Michael J. Ure, Reg. 33,089

Dated: January 30, 2004

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| <p>TO: EXAMINER, RICHARD L. ELLIS U.S. PATENT AND TRADEMARK OFFICE WASHINGTON, DC 20503 DATE: APRIL 29, 2003</p> | | | | | |
| <p>FROM: FRANK C. NICHOLAS (847) 905-7111 FAX #: (847) 905-7113</p> | | | | | |
| <p>CLASSIFICATION No.: PHA 23.756 (7790/105)</p> | | | | | |
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**CONFIDENTIAL ATTORNEY-CLIENT
PRIVILEGED COMMUNICATION**

Date: APRIL 29, 2003

To: EXAMINER RICHARD L. ELLIS
U.S. PATENT AND TRADEMARK OFFICE

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From: FRANK C. NICHOLAS
Fax #: (847) 905-7111

Client/Matter No.: PHA 23,756 (7790/105)

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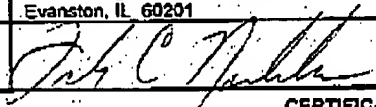
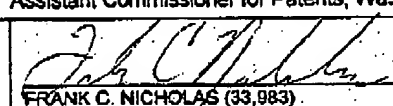
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| TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i> | Attorney Docket No. | F 3,756 (7790/105) |
| | Application Number | 09/391,647 |
| | Filing Date | SEPTEMBER 7, 1999 |
| | First Named Inventor | WINTHROP L. SAVILLE |
| | Group Art Unit | 2183 |
| | Examiner | ELLIS, R.L. |

| ENCLOSURES (check all that apply) | | |
|---|---|--|
| <input type="checkbox"/> Amendment <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Status Letter <input type="checkbox"/> Extension of Time Request (duplic) <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement, PTO-1449, art <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application | <input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawings: <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> To Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request of Refund | <input type="checkbox"/> Notice of Appeal Communication to Board of Appeals and Interferences <input checked="" type="checkbox"/> Appeal Brief <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Post Card Receipt <input type="checkbox"/> Additional Enclosure(s) (please identify below): <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account No. 50-1713. A duplicate copy of this sheet is enclosed. <input checked="" type="checkbox"/> I hereby petition under 37 CFR § 1.138(a) for any extension of time required to ensure that this paper is timely filed. Please charge any associated fees which have not otherwise been paid to Deposit Account No. 50-1713. A duplicate copy of this sheet is enclosed. |

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| Total | | Minus | | 0 | x \$9= | 0 | | x \$18= | |
| Indep. | | Minus | | 0 | x \$42= | 0 | | x \$84= | |
| First Presentation of Multiple Dep. Claim | | | | | + \$140= | | | + \$280= | |
| | | | | | total add'l fee | \$ 0 | | total add'l fee | \$ 0 |

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|--|---|-------|----------------|
| Firm or Individual name | FRANK C. NICHOLAS Registration No. 33,983 CARDINAL LAW GROUP 1603 Orrington Avenue, Suite 2000 Evanston, IL 60201 | | |
| Signature |  | Date | April 30, 2003 |
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| Signature |  FRANK C. NICHOLAS (33,983) | Date: | April 30, 2003 |

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(Date of Deposit)

FRANK C. NICHOLAS (33,983)

Name of applicant, assignee or registered representative

Frank C. Nicholas

Signature

APRIL 30, 2003

Date of Signature

PATENT
Case No. PHA 23,756
(7790/105)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES**

In re patent application of:

WINTHROP L. SAVILLE, ET AL.

Serial No.: 09/391,647

Filed: SEPTEMBER 7, 1999

Title: METHOD FOR FORMING VARIABLE
LENGTH INSTRUCTINS IN A
PROCESSING SYSTEM

Examiner: ELLIS, R.L.

Group Art Unit: 2183

APPEAL BRIEF

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

Appellants herewith respectfully present their Brief on Appeal as follows:

PC MAY 06 2003

S. \KRIPHA\ A23756. APPBRF

CC
JDSV

April 30, 2003
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Serial No. 09/391,647
Filed: September 7, 1999
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1. REAL PARTY IN INTEREST

The real party in interest is Assignee U.S. Philips Corporation, which is a Delaware corporation having an office and a place of business at 100 East 42nd Street, New York, NY 10017.

2. RELATED APPEALS AND INTERFERENCES

Appellants and the undersigned attorney are not aware of any other appeals or interferences which will directly affect or be directly affected by or having a bearing on the Board's decision in the pending appeal.

3. STATUS OF CLAIMS

Claims 14-26 are currently pending in the application and are the claims on appeal. See the Appendix. Claims 14, 20, and 21 are the independent claims. Claims 15-19 depend from independent claim 14. Claims 22-26 depend from independent claims 20 and 21. Claims 14-26 stand finally rejected under 35 U.S.C. §102(b) as being anticipated by U.S. patent No. 4,454,578 to *Matsumoto et al.*

4. STATUS OF AMENDMENTS

A reply under 37 C.F.R. §1.112 involving a cancellation of claims 1-13, and an addition of claims 14-26 was filed on 06/20/02 and entered into the application. A reply under 37 C.F.R.

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§1.116 involving an amendment of claims 20 and 21, and a cancellation of claim 22 was filed on 11/26/02, but not entered into the application.

5. SUMMARY OF THE INVENTION

Each instruction of the present invention includes an opcode portion and a parameter portion including one or more parameter bytes of a predetermined bit length (e.g., 8 bits). The present invention discloses four (4) basic types of parameter portions. The first and second parameter portion types, as subsequently described herein, are prior art to the present invention. The third and fourth parameter portion types, as subsequently described herein, are new and unique to the present invention.

The first parameter portion type represents unsigned data that is not compressed whereby a total bit length m of the data equals a total bit length n of the parameter portion. An example of an instruction formed in accordance with the first parameter portion type including a parameter portion having a parameter byte 10011011 is illustrated in FIG. 3A of the present application, where $m = n = 8$ bits.

The second parameter portion type represents signed data that is not compressed whereby total bit length m of the data equals total bit length n of the parameter portion. An example of an instruction formed in accordance with the second parameter portion type including a parameter portion having a parameter byte 01101101 is illustrated in FIG. 3B of the present application, where $m = n = 8$ bits.

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The third type is a parameter portion representing unsigned data that may or may not be compressed whereby total bit length m of the data equals total bit length n of the parameter portion if the data is not compressed, and whereby total bit length m of the data is greater than total bit length n of the parameter portion if the data is compressed. An expansion bit within a parameter byte indicates whether the data value bits of that particular byte should be expanded or data value bits from additional parameter bytes, if any, should be read.

An example of an instruction in accordance with the third parameter portion type including a parameter portion having a first parameter byte 01010101 and a second parameter byte 11110000 is illustrated in FIG. 3C of the present application, wherein $n = 16$ bits of the parameter portion. The expansion bit (e) in the first parameter byte is (0). Thus, the data value bits of the second parameter byte are read to obtain an overall data value of 0101010 11110000, where $m = 16$ bits of data length.

Another example of an instruction in accordance with the third parameter portion type including a first parameter portion having a parameter byte 11010101 and a second parameter portion having a parameter byte 11100110 is illustrated in FIG. 3D of the present application, wherein $n = 8$ bits for both parameter portions. The expansion bit (e) in the first parameter byte is (1). Thus, the data value bits of the first parameter byte is expanded for example to 00000000 01010101, where the first parameter byte has a data length of 16 bits. The expansion bit (e) in the second parameter byte is also (1). Thus, the data value bits of the second parameter byte is expanded for example to 00000000 01100110, where the second parameter byte has a data

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length of 16 bits. The result is an overall data value of 00000000 01010101 00000000 01100110, where $m = 32$ bits of data length.

Another example of an instruction in accordance with the third parameter portion type including a parameter portion having a first parameter byte 01010101, a second parameter byte 01110000, a third parameter byte 01100110 and a fourth parameter byte 11110000 is illustrated in FIG. 3E of the present application, wherein $n = 32$ bits of the parameter portion. The expansion bit (e) in the first parameter byte is (0). Thus, the data value bits of the second parameter byte are read. The expansion bit (e) in the second parameter byte is (0). Thus, the data value bits of the third parameter byte are read. The expansion bit (e) in the third parameter byte is (0). Thus, the data value bits of the fourth parameter byte are read. The result is a data value of 01010101 01110000 1100110 11110000, where $m = 32$ bits of data length.

Another example of an instruction in accordance with the third parameter portion type including a parameter portion having a first parameter byte 01010101, a second parameter byte 01110000 and a third parameter byte 11100110 is illustrated in FIG. 3F of the present application, wherein $n = 24$ bits of the parameter portion. The expansion bit (e) in the first parameter byte is (0). Thus, the data value bits of the second parameter byte are read. The expansion bit (e) in the second parameter byte is (0). Thus, the data value bits of the third parameter byte are read. The expansion bit (e) in the third parameter byte is (1). Thus, the data value bits of the third parameter byte are expanded for example to 00000000 01100110. The result is a data value of 01010101 01110000 00000000 01100110, where $m = 32$ bits of data length.

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Additional examples of instructions in accordance with the third parameter portion type are illustrated in FIGS. 3K and 3L of the present application.

The fourth type is a parameter portion representing signed data that may or may not be compressed whereby total bit length m of the data equals total bit length n of the parameter portion if the data is not compressed, and whereby total bit length m of the data is greater than total bit length n of the parameter portion if the data is compressed. An expansion bit within a parameter byte indicates whether the data value bits of that particular byte should be expanded or data value bits from additional parameter bytes, if any, should be read. Examples of instructions in accordance with the fourth type are illustrated in FIGS. 3G-3J of the present application.

6. ISSUES

Whether claims 14-19 and 22 are anticipated by *Matsumoto*.

7. GROUPING OF CLAIMS

The claims should be considered in two (2) separate groups:

Group I includes representative claim 14 and claims 15-19 depending from claim 14, all of which specify a method of forming instructions for execution in a processing system.

Group II is dependent claim 22, which specifies a method of forming instructions for execution in a processing system.

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8. ARGUMENTS

Matsumoto. As illustrated in FIGS. 1A and 1B, *Matsumoto* discloses a short literal mode specifier and a long literal mode specifier, respectively, for an operand (i.e., parameter portions).

The short literal mode specifier includes a most significant bit ("MSB"), a TYPE field, a LENGTH field and a LITERAL VALUE field. A total bit length of the MSB is 1 bit. A total bit length of the TYPE field is 2 bits. A total bit length of the LENGTH field is 3 bits. A total bit length of the LITERAL VALUE field is either X or Y, where X equals 4 x the length indicated by the LENGTH field and Y equals 8 x the length indicated by the LENGTH field. *Matsumoto* teach the length of the LITERAL VALUE field ranges from a minimum of 4 bits (LENGTH field is 001, TYPE field indicates 4 bits) to a maximum of 56 bits (LENGTH field is 111, TYPE field indicates 8 bits). See, Matsumoto at column 2, lines 58-66.

The long literal mode specifier includes a most significant bit ("MSB"), a TYPE field, a 000 field, a LENGTH field and a LITERAL VALUE field. A total bit length of the MSB is 1 bit. A total bit length of the TYPE field is 2 bits. A total bit length of the 000 field is 3. A total bit length of the LENGTH field of is 8 bits. A total bit length of the LITERAL VALUE field is either X or Y, where X equals 4 x the length indicated by the LENGTH field and Y equals 8 x the length indicated by the LENGTH field. *Matsumoto* teach the length of the LITERAL VALUE field ranges from a minimum of 4 bits (LENGTH field is 00000001, TYPE field indicates 4 bits) to a maximum of 2,040 bits (LENGTH field is 11111111, TYPE field indicates 8 bits). See, Matsumoto at column 2, line 55 to column 3, line 2.

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Matsumoto further discloses an instruction aligner ALIG 402 (FIG. 4A) for aligning an operand specifier 11A (FIG. 4A) bit by bit in a sequence 14A (FIG. 4B) to be decoded by an operand specifier decoder OS-DEC 505 (FIG. 4B). See, *Matsumoto* at column 6, lines 31-35; and column 7, lines 10 and 11. *Matsumoto* fails to teach or suggest a compression of the LITERAL VALUE fields of the specifiers whereby the LITERAL VALUE fields would have to be expanded during a decoding of the operand specifiers. Thus, *Matsumoto* fails to disclose, teach or suggest a need for an expansion bit in the operand specifier wherein the expansion bit indicates whether the data bits of the LITERAL VALUE field should be expanded by decoder 505.

Moreover, *Matsumoto* teaches the short literal mode specifier and the long literal mode specifier are two separate and distinct operand specifiers. Specifically, *Matsumoto* teaches the long literal mode specifier is to be used whenever a length of the literal data needs to be greater than the 56 bit maximum of the short literal mode specifier. See, *Matsumoto* at column 2, line 55 to column 3, line 2. Thus, *Matsumoto* can not be interpreted as proposed by Examiner Ellis that the 000 field of the long literal mode specifier indicates an expansion of the short literal mode specifier, because a substitution of the long literal mode specifier for the short literal mode specifier whenever the address is greater than 56 bits negates any purpose for expanding the short literal mode specifier.

Group 1. "A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference."

Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed.

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Cir. 1987). "The identical invention must be shown in as complete detail as is contained in the ... claim." *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). Thus, to warrant the §102(b) rejection of independent claim 14, *Matsumoto* must disclose each and every limitation of independent claim 14 in as complete detail as is contained in independent claim 14. The Appellants respectfully assert that *Matsumoto* clearly fails to disclose, teach or suggest "providing a first parameter byte including . . . a first expansion bit indicative of whether the processing system expands the first set of data value bits or reads any additional parameter bytes including additional sets of data value bits" as recited in independent claim 14. Withdrawal of the rejection of independent claim 14 under 35 U.S.C. §102(b) as being anticipated by *Matsumoto* is therefore respectfully requested.

Claims 15-19 depend from independent claim 14. Therefore, dependent claims 15-19 include all of the elements and limitations of independent claim 14. It is therefore respectfully submitted by the Appellants that dependent claims 15-19 are allowable over *Matsumoto* for at least the same reason as set forth above with respect to independent claim 14. Withdrawal of the rejection of dependent claims 15-19 under 35 U.S.C. §102(b) as being anticipated by *Matsumoto* is therefore respectfully requested.

Group II. To warrant the §102(b) rejection of dependent claim 22, *Matsumoto* must disclose each and every limitation of dependent claim 22 in as complete detail as is contained in dependent claim 22. The Appellants respectfully assert that *Matsumoto* clearly fails to disclose, teach or suggest "wherein the parameter portions further includes a second indicator representative of whether to expand the plurality of data value bits" as recited in independent

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claim 22. Withdrawal of the rejection of dependent claim 22 under 35 U.S.C. §102(b) as being anticipated by *Matsumoto* is therefore respectfully requested.

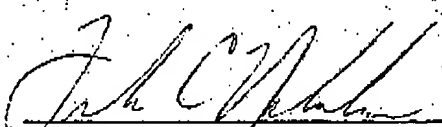
Dated: April 30, 2003

Respectfully submitted,
WINTHROP L. SAVILLE et al.

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April 30, 2003

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APPENDIX

14. A method of forming instructions for execution in a processing system, said method comprising:
- providing an opcode portion determining at least one instruction to be performed by the processing system; and
 - providing a first parameter byte including a first set of data value bits, and a first expansion bit indicative of whether the processing system expands the first set of data value bits or reads any additional parameter bytes including additional sets of data value bits.
15. The method of claim 14, wherein said first byte further has a sign bit indicative of whether the first set of data value bits represents a positive number or a negative number.
16. The method of claim 14, further comprising
- providing a second parameter byte including a second set of data value bits, and a second expansion bit indicative of whether the processing system expands the second set of data value bits or reads any additional parameter bytes including additional sets of data value bits.
17. The method of claim 16, wherein said first byte further has a sign bit indicative of whether the first set of data value bits and the second set of data value bits collectively represent a positive number or a negative number.
18. The method of claim 16, further comprising
- providing a third parameter byte including a third set of data value bits, and a third expansion bit indicative of whether the processing system expands the third set of data value bits or reads any additional parameter bytes including additional sets of data value bits.

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19. The method of claim 18, wherein said first byte further has a sign bit indicative of whether the first set of data value bits, the second set of data value bits and the third set of data value bits collectively represent a positive number or a negative number.

20. A method of forming instructions for execution in a processing system, said method comprising:

providing an opcode portion determining at least one instruction to be performed by the processing system; and

providing a parameter portion including a plurality of data value bits, and a first indicator representative of a number of the plurality of data value bits.

21. A method of forming instructions for execution in a processing system, said method comprising:

providing an opcode portion determining at least one instruction to be performed by the processing system; and

providing a parameter portion including a plurality of data value bits, and a first indicator representative a number of bytes in the parameter portion.

22. The method of claim 20 or 21, wherein the parameter portions further includes a second indicator representative of whether to expand the plurality of data value bits.

23. The method of claim 20 or 21, wherein the parameter portions further includes a second indicator representative of whether the plurality of data value bits represent a positive number or a negative number.

24. The method of claim 20 or 21, wherein the opcode portion defines a number of parameters in the parameter portion.

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Filed: September 7, 1999

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25. The method of claim 20 or 21, wherein the opcode portion defines an uncompressed length of the plurality of data value bits.
26. The method of claim 20 or 21,
wherein the parameter portion includes a plurality of parameter bytes; and
wherein the opcode portion determines an order of arrangement of the plurality of parameter bytes.